

KENWOOD

KMM-BT408

DIGITAL MEDIA RECEIVER
INSTRUCTION MANUAL

JVCKENWOOD Corporation

Made for
 iPhone | iPod



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sha2

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LFS Subsystem

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How to read this manual

- The displays and faceplates shown in this manual are examples used to provide clear explanations of the operations. For this reason, they may be different from the actual displays or faceplates.
- Operations are explained mainly using buttons on the faceplate.
- English indications are used for the purpose of explanation. You can select the display language from the [FUNCTION] menu. (Page 7)
- [XX] indicates the selected items.
- (Page XX) indicates references are available on the stated page.



This symbol on the product means there are important operating and maintenance instructions in this manual. Be sure to carefully read instructions in this manual.

Before Use

IMPORTANT

- To ensure proper use, please read through this manual before using this product. It is especially important that you read and observe Warnings and Cautions in this manual.
- Please keep the manual in a safe and accessible place for future reference.

▲ WARNING

- **Do not operate any function that takes your attention away from safe driving.**

- **Do not ingest the battery, Chemical Burn Hazard.**

The remote control supplied with this product contains a coin/button cell battery.

If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

Keep new and used batteries away from children.

If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

▲ CAUTION

Volume setting:

- Adjust the volume so that you can hear sounds outside the car to prevent accidents.
- Lower the volume before playing digital sources to avoid damaging the speakers by the sudden increase of the output level.

General:

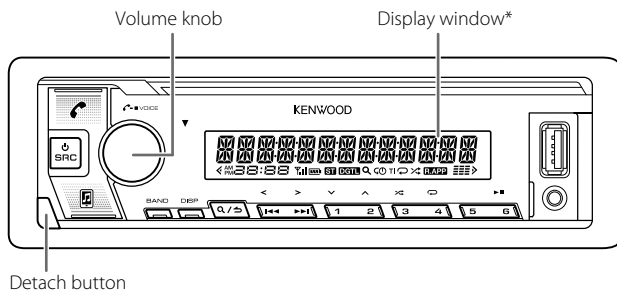
- Avoid using the external device if it might hinder safe driving.
- Make sure all important data has been backed up. We shall bear no responsibility for any loss of recorded data.
- Never put or leave any metallic objects (such as coins or metal tools) inside the unit to prevent a short circuit.
- USB rating is indicated on the main unit. To view, detach the faceplate. (Page 4)
- Depending on the types of cars, the antenna will automatically extend when you turn on the unit with the antenna control wire connected (page 28). Turn off the unit or change the source to STANDBY when parking at a low ceiling area.

Remote control (RC-406):

- Do not leave the remote control in hot places such as on the dashboard.
- Risk of fire or explosion if the battery is replaced by an incorrect type. Ensure to replace only with the same type.
- Risk of fire, explosion or the leakage of flammable liquid or gas if the battery is left in an extremely high temperature surrounding environment and/or subjected extremely low air pressure. The battery pack or batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
- Risk of fire, explosion or the leakage of flammable liquid or gas if the battery is disposed into fire or a hot oven, recharged, shorted, mechanically crushed or cut of the battery.
- If spilled fluid comes in contact with your eyes or on clothing, immediately rinse with water and consult a physician.

Basics

Faceplate

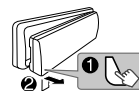


* Only for illustration purpose.

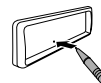
Attach



Detach



How to reset



Reset the unit within 5 seconds after detaching the faceplate.

To

On the faceplate

Turn on the power

Press SRC.
• Press and hold to turn off the power.

Adjust the volume

Turn the volume knob.

Select a source

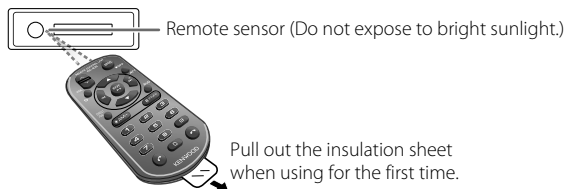
• Press SRC repeatedly.
• Press SRC, then turn the volume knob within 2 seconds.

Change the display information

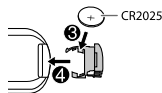
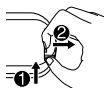
Press DISP repeatedly. (Page 30)

Basics

Remote control (RC-406) (supplied)



How to replace the battery



To

On the remote control

Adjust the volume

Press VOL ▲ or VOL ▼.
• Press and hold VOL ▲ to continuously increase the volume to 15.

Press ATT during playback to attenuate the sound.
• Press again to cancel.

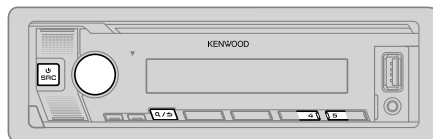
Select a source

Press SRC repeatedly.

Turn off the power

Press and hold SRC to turn off the power.
(Pressing SRC does not turn on the power.)

Getting Started



1

Select the display language, acknowledge the crossover type and cancel the demonstration

When you turn on the power for the first time (or [FACTORY RESET] is set to [YES], see page 7), the display shows: "SEL LANGUAGE" → "PRESS" → "VOLUME KNOB"

- 1 Turn the volume knob to select [ENG] (English) or [TUR] (Turkish), then press the knob.
[ENG] is selected for the initial setup.
Then, the display shows: "2-WAY X ' OVER" or "3-WAY X ' OVER" → "PRESS" → "VOLUME KNOB" → "TO CONFIRM".
- 2 Press the volume knob to acknowledge the current crossover type.
• To change the crossover type, see "Change the crossover type" on page 7.
Then, the display shows: "CANCEL DEMO" → "PRESS" → "VOLUME KNOB".
- 3 Press the volume knob again.
[YES] is selected for the initial setup.
- 4 Press the volume knob again.
"DEMO OFF" appears.

Getting Started

Default: [XX]

2

Set the clock and date

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select [CLOCK], then press the knob.

To adjust the clock

- 3 Turn the volume knob to select [CLOCK ADJUST], then press the knob.
- 4 Turn the volume knob to make the settings, then press the knob.
Set the time in the order of "Hour" ➡ "Minute".
- 5 Turn the volume knob to select [CLOCK FORMAT], then press the knob.
- 6 Turn the volume knob to select [12H] or [24H], then press the knob.

To set the date

- 7 Turn the volume knob to select [DATE FORMAT], then press the knob.
- 8 Turn the volume knob to select [DD/MM/YY] or [MM/DD/YY], then press the knob.
- 9 Turn the volume knob to select [DATE SET], then press the knob.
- 10 Turn the volume knob to make the settings, then press the knob.
Set the date in the order of "Day" ➡ "Month" ➡ "Year" or "Month" ➡ "Day" ➡ "Year".
- 11 Press and hold **Q/↵** to exit.

To return to the previous setting item, press **Q/↵**.

3

Set the other optional settings

You can only set the following items while the unit is in STANDBY source.

- 1 Press **⏻** SRC repeatedly to enter STANDBY.
- 2 Press the volume knob to enter [FUNCTION].
- 3 Turn the volume knob to select an item (see the following table), then press the knob.
- 4 Repeat step 3 until the desired item is selected or activated.
- 5 Press and hold **Q/↵** to exit.

To return to the previous setting item, press **Q/↵**.

[DISPLAY]

[EASY MENU]

When entering [FUNCTION]...

[ON]: [ZONE 1] illumination changes to white color. ;

[OFF]: [ZONE 1] illumination remains as [COLOR SELECT] color.
(Page 25)

- [ZONE 2] illumination changes to light blue color when you enter [FUNCTION], regardless of the [EASY MENU] setting.
- Refer to the illustration on page 24 for zone identification.

[TUNER SETTING]

[PRESET TYPE]

[NORMAL]: Memorizes one station for each preset button in each band (FM1/FM2/FM3/AM/SW1/SW2). ; [MIX]: Memorizes one station for each preset button, regardless of the selected band.

[SYSTEM]

[KEY BEEP]

(Applicable only if [X'OVER] is set to [2WAY].) (Page 7)

[ON]: Activates the keypress tone. ; [OFF]: Deactivates.

[TDF ALARM]

(Applicable only if [X'OVER] is set to [2WAY].) (Page 7)

[ON]: Activates the alarm if you forget to detach the faceplate when ACC is set to OFF. ; [OFF]: Deactivates.

[SOURCE SELECT]

[BT AUDIO SRC]

[ON]: Enables BT AUDIO in source selection. ; [OFF]: Disables. (Page 19)

[BUILT-IN AUX]

[ON]: Enables AUX in source selection. ; [OFF]: Disables. (Page 12)

Getting Started

[F/W UPDATE]

[UPDATE SYSTEM]

- [F/W UP xxxx] [YES]: Starts upgrading the firmware. ; [NO]: Cancels (upgrading is not activated).
For details on how to update the firmware, visit
<<https://www.kenwood.com/cs/ce/>>.
- Once you have upgraded the firmware, you are unable to downgrade the firmware.

[FACTORY RESET]

[YES]: Resets the settings to default (except the stored station). ;
[NO]: Cancels.

[ENGLISH]

Select the display language for [FUNCTION] menu and music information if applicable.

[TURKCE]

By default, [ENGLISH] is selected.

Change the crossover type

- 1 Press  SRC repeatedly to enter STANDBY.
- 2 Press and hold number buttons 4 and 5 to enter crossover select.
The current crossover type appears.
- 3 Turn the volume knob to select "2WAY" or "3WAY", then press the knob.
- 4 Turn the volume knob to select "YES" or "NO", then press the knob.
The selected crossover type appears.

- To cancel, press and hold .
- To adjust the selected crossover settings, see page 21.

Once you have changed the crossover type, the next time when you turn on the power, the display shows:

"2-WAY X ' OVER" or "3-WAY X ' OVER" → "PRESS" → "VOLUME KNOB" → "TO CONFIRM"

Press the volume knob to acknowledge in order to proceed to the next desired operation.

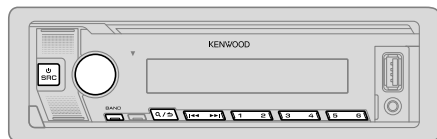
CAUTION

Select a crossover type according to how the speakers are connected.
(Page 28, 29)

If you select a wrong type:

- The speakers may damage.
- The output sound level may be extremely high or low.

Radio



- “ST” indicator lights up when receiving an FM stereo broadcast with sufficient signal strength.
- The unit switches to FM alarm automatically when receiving an alarm signal from FM broadcast.

Search for a station

- 1 Press **SRC** repeatedly to select RADIO.
- 2 Press **BAND** repeatedly (or press **#FM+/*AM-** on the remote control) to select FM1/FM2/FM3/AM/SW1/SW2.
- 3 Press **◀▶** (or press **◀▶** (+) on the remote control) to search for a station.

You can store up to 18 stations for FM and 6 stations for AM/SW1/SW2.

- **To store a station:** Press and hold one of the number buttons (1 to 6).
- **To select a stored station:** Press one of the number buttons (1 to 6) (or press one of the number buttons (1 to 6) on the remote control).

Direct Access Tuning (using the remote control)

- 1 Press **DIRECT** to enter Direct Access Tuning.
 - 2 Press the number buttons to enter a station frequency.
 - 3 Press **ENT ▶▶** to search for a station.
- To cancel, press **↶** or **DIRECT**.
 - If no operation is done for 10 seconds after step 2, Direct Access Tuning is automatically canceled.

Other settings

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select an item (see the following table), then press the knob.
- 3 Repeat step 2 until the desired item is selected/activated or follow the instructions stated on the selected item.
- 4 Press and hold **Q/⏏** to exit.

To return to the previous setting item, press **Q/⏏**.

Default: **[XX]**

[TUNER SETTING]

[SEEK MODE]	Selects the searching method for ◀▶ buttons when pressed. [AUTO1] : Automatically search for a station. ; [AUTO2] : Search for a preset station. ; [MANUAL] : Manually search for a station.
[LOCAL SEEK]	[ON] : Searches only AM/SW1/SW2 stations with good reception. ; [OFF] : Cancels. • Settings made are applicable only to the selected source/station. Once you change the source/station, you need to make the settings again.
[AUTO MEMORY]	[YES] : Automatically starts memorizing 6 stations with good reception. ; [NO] : Cancels. • Selectable only if [NORMAL] is selected for [PRESET TYPE] . (Page 6)
[MONO SET]	[ON] : Improves the FM reception, but the stereo effect will be lost. ; [OFF] : Cancels.
[NEWS SET]	[ON] : The unit will temporarily switch to News Programme if available. ; [OFF] : Cancels.
[REGIONAL]	[ON] : Switches to another station only in the specific region using the “AF” control. ; [OFF] : Cancels.
[AF SET]	[ON] : Automatically searches for another station broadcasting the same program in the same Radio Data System network with better reception when the current reception is poor. ; [OFF] : Cancels.

Radio

[TI]	[ON]: Allows the unit to temporarily switch to Traffic Information if available ("TI" indicator lights up) while listening to all sources except in AM/SW1/SW2. ; [OFF]: Cancels.
[PTY SEARCH]	1 Turn the volume knob to select the available Program Type (see the following "Available Program Type for [PTY SEARCH]"), then press the knob. 2 Turn the volume knob to select the PTY language ([ENGLISH]/[FRENCH]/[GERMAN]), then press the knob. 3 Press ◀◀ / ▶▶ to start searching.
[CLOCK]	
[TIME SYNC]	[ON]: Synchronizes the unit's time to the Radio Data System station time. ; [OFF]: Cancels.

- [MONO SET]/[NEWS SET]/[REGIONAL]/[AF SET]/[TI]/[PTY SEARCH] is selectable only when the band is FM1/FM2/FM3.
- If the volume is adjusted during reception of traffic information, alarm or news bulletin, the adjusted volume is memorized automatically. It will be applied the next time traffic information, alarm or news bulletin is turned on.

Available Program Type for [PTY SEARCH]

[SPEECH]:

[NEWS], [AFFAIRS], [INFO] (information), [SPORT], [EDUCATE], [DRAMA], [CULTURE], [SCIENCE], [VARIED], [WEATHER], [FINANCE], [CHILDREN], [SOCIAL], [RELIGION], [PHONE IN], [TRAVEL], [LEISURE], [DOCUMENT]

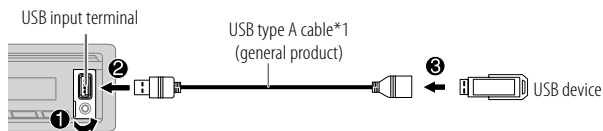
[MUSIC]:

[POP M] (music), [ROCK M] (music), [EASY M] (music), [LIGHT M] (music), [CLASSICS], [OTHER M] (music), [JAZZ], [COUNTRY], [NATION M] (music), [OLDIES], [FOLK M] (music)

The unit will search for the Program Type categorized under [SPEECH] or [MUSIC] if selected.

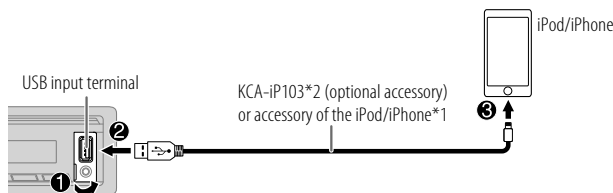
USB/iPod

Connect a USB device



The source changes to USB automatically and playback starts.

Connect an iPod/iPhone



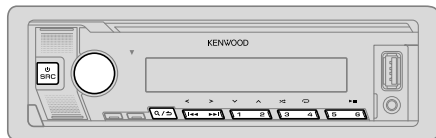
The source changes to iPod USB automatically and playback starts.

- You can also connect iPod/iPhone via Bluetooth. (Page 14)

*1 Do not leave the cable inside the car when not in use.

*2 KCA-iP103: Lightning type

Basic operations



Selectable source: USB/iPod USB or iPod BT

For playable audio file, see “Playable files” on page 29.

To	On the faceplate	On the remote control
Play back/pause	Press 6 ► .	Press ENT ► .
Reverse/Fast-forward	Press and hold ◀◀ / ▶▶.	Press and hold ◀◀ / ▶▶ (+).
Select a file	Press ◀◀ / ▶▶.	Press ◀◀ / ▶▶ (+).
Select a folder*	Press 2 ^ / 1 v.	Press #FM+/*AM-.
Repeat play	Press 4 ↺ repeatedly. [FILE REPEAT]/[FOLDER REPEAT]/[ALL REPEAT]: MP3/WMA/AAC/WAV/FLAC file [REPEAT ONE]/[REPEAT ALL]/[REPEAT OFF]: iPod	
Random play	Press 3 > repeatedly. [FOLDER RANDOM]/[RANDOM OFF]: MP3/WMA/AAC/WAV/FLAC file [SHUFFLE ON]/[SHUFFLE OFF]: iPod Press and hold 3 > to select [ALL RANDOM].*	

* This does not work for iPod.

Select music drive

While in USB source, press 5 repeatedly.

Stored songs in the following drive will be played back.

- Selected internal or external memory of a smartphone (Mass Storage Class).
- Selected drive of a multiple drive device. (This unit can support multiple drive device of up to 4 drives. However, this unit may take some time to read if three or more cards are connected.)

You can also select the music drive from the [FUNCTION] menu.

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select [USB], then press the knob.
- 3 Turn the volume knob to select [MUSIC DRIVE], then press the knob.
- 4 Turn the volume knob to select [DRIVE CHANGE], then press the knob.
The next drive ([DRIVE 1] to [DRIVE 4]) is selected automatically and playback starts.
- 5 Repeat step 1 to step 4 to select the following drives.
- 6 Press and hold Q/↵ to exit.

To return to the previous setting item, press Q/↵.

Direct Music Search (using the remote control)

- 1 Press DIRECT.
- 2 Press the number buttons to enter a file number.
- 3 Press ENT ►|| to search for music.

- To cancel, press ↵ or DIRECT.
- Not available if Random Play is selected.
- Not applicable for iPod USB source.

Select a file to play

From a folder or list

- 1 Press **Q/↵**.
- 2 Turn the volume knob to select a folder/list, then press the knob.
- 3 Turn the volume knob to select a file, then press the knob.
Selected file starts playing.

Quick search (applicable only for USB source)

If you have many files, you can search through them quickly.

- 1 Press **Q/↵**.
- 2 Turn the volume knob to select a folder/list, then press the knob.
- 3 Turn the volume knob quickly to browse through the list quickly.
- 4 Turn the volume knob to select a file, then press the knob.
Selected file starts playing.

Skip search (applicable only for iPod USB source and iPod BT source)

If you have many files in the selected list, you can perform the following to search for a file by skipping through the list at a rate selected in [SKIP SEARCH].

- 1 Press **Q/↵**.
- 2 Turn the volume knob to select a list, then press the knob.
- 3 Press **◀◀/▶▶** to search at a preset skip search ratio.
 - Pressing and holding **◀◀/▶▶** searches at a 10% ratio regardless of the [SKIP SEARCH] settings.
- 4 Turn the volume knob to select a file, then press the knob.
Selected file starts playing.

[SKIP SEARCH] setting

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select [USB], then press the knob.
- 3 Turn the volume knob to select [SKIP SEARCH], then press the knob.
- 4 Turn the volume knob to select the skip search ratio, then press the knob.
[0.5%] (default)/[1%]/[5%]/[10%]
The skip search ratio is shown as a percentage of the total files.
- 5 Press and hold **Q/↵** to exit.

Alphabet search (applicable only for iPod USB source and iPod BT source)

You can search for a file according to the first character.

- 1 Press **Q/↵**.
- 2 Turn the volume knob to select a list, then press the knob.
- 3 Turn the volume knob quickly to enter character search.
- 4 Turn the volume knob to select the character.
 - Select "*" to search for a character other than A to Z, 0 to 9.
- 5 Press **◀◀/▶▶** to move to the entry position.
 - You can enter up to 3 characters.
- 6 Press the volume knob to start searching.
- 7 Turn the volume knob to select a file, then press the knob.
Selected file starts playing.
 - To return to the root folder/first file/top menu, press 5. (Not applicable for BT AUDIO source.)
 - To return to the previous setting item, press **Q/↵**.
 - To cancel, press and hold **Q/↵**.

AUX

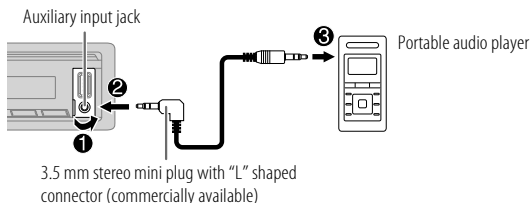
You can listen to music from a portable audio player via the auxiliary input jack.

Preparation:

Select [ON] for [BUILT-IN AUX] in [SOURCE SELECT]. (Page 6)

Start listening

- 1 Connect a portable audio player (commercially available).



- 2 Press $\odot$ SRC repeatedly to select AUX.
- 3 Turn on the portable audio player and start playback.

Set the name of the external device

While listening to a portable audio player connected to the unit...

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select [SYSTEM], then press the knob.
- 3 Turn the volume knob to select [AUX NAME SET], then press the knob.
- 4 Turn the volume knob to select an item, then press the knob.
[AUX] (default)/[DVD]/[PORTABLE]/[GAME]/[VIDEO]/[TV]
- 5 Press and hold $\mathcal{Q}/\rightarrow$ to exit.

To return to the previous setting item, press $\mathcal{Q}/\rightarrow$.

KENWOOD Remote Application

You can control the KENWOOD car receiver from iPhone/iPod touch (via Bluetooth or via USB input terminal) or Android device (via Bluetooth) using KENWOOD Remote application.

- For more information, visit <<https://www.kenwood.com/cs/ce/>>.

Preparation:

Install the latest version of KENWOOD Remote application on your device before connecting.

Start using KENWOOD Remote application

- 1 Start up the KENWOOD Remote application on your device.
- 2 Connect your device.
 - For Android device:
Pair the Android device with this unit via Bluetooth. (Page 14)
 - For iPhone/iPod touch:
Connect iPhone/iPod touch to the USB input terminal. (Page 9)
(or)
Pair the iPhone/iPod touch with this unit via Bluetooth. (Page 14)
(Make sure the USB input terminal is not connected to any device.)
- 3 Select the device to use from the [FUNCTION] menu.
See the following "Settings to use KENWOOD Remote application".
By default, [ANDROID] is selected. To use iPhone/iPod touch, select [YES] for [iOS].
 - "RAPP" indicator lights up when KENWOOD Remote application is connected.

Settings to use KENWOOD Remote application

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select an item (page 13), then press the knob.

KENWOOD Remote Application

3 Repeat step 2 until the desired item is selected/activated.

4 Press and hold **Q**/**↵** to exit.

To return to the previous setting item, press **Q**/**↵**.

Default: **[XX]**

[REMOTE APP]	
[SELECT]	Selects the device ([IOS] or [ANDROID]) to use the application.
[IOS]	[YES]: Selects iPhone/iPod touch to use the application via Bluetooth or connected via USB input terminal. ; [NO]: Cancels. If [IOS] is selected, select iPod BT source (or iPod USB source if your iPhone/iPod touch is connected via USB input terminal) to activate the application. - The connectivity of the application will be interrupted or disconnected if: - You change from iPod BT source to any playback source connected via the USB input terminal. - You change from iPod USB source to iPod BT source.
[ANDROID]	[YES]: Selects Android device to use the application via Bluetooth. ; [NO]: Cancels.
[ANDROID LIST]	Selects the Android device to use from the list. Displayed only when [ANDROID] of [SELECT] is set to [YES].
[STATUS]	Shows the status of the selected device. [IOS CONNECTED]: You are able to use the application using the iPhone/iPod touch connected via Bluetooth or USB input terminal. [IOS NOT CONNECTED]: No iOS device is connected to use the application. [ANDROID CONNECTED]: You are able to use the application using the Android device connected via Bluetooth. [ANDROID NOT CONNECTED]: No Android device is connected to use the application.

Bluetooth®

- Depending on the Bluetooth version, operating system and the firmware version of your mobile phone, Bluetooth features may not work with this unit.
- Be sure to turn on the Bluetooth function of the device to make the following operations.
- Signal conditions vary depending on the surroundings.

Bluetooth — Connection

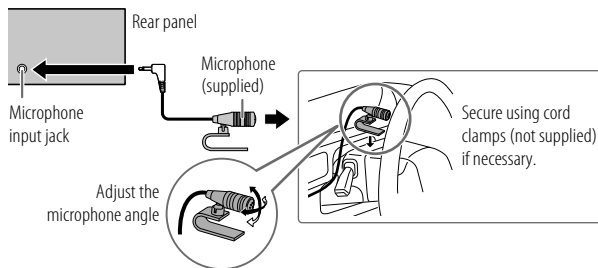
Supported Bluetooth profiles

- Hands-Free Profile (HFP)
- Advanced Audio Distribution Profile (A2DP)
- Audio/Video Remote Control Profile (AVRCP)
- Serial Port Profile (SPP)
- Phonebook Access Profile (PBAP)

Supported Bluetooth codecs

- Sub Band Codec (SBC)
- Advanced Audio Coding (AAC)

Connect the microphone



Pair and connect a Bluetooth device for the first time

- 1 Press **⏻ SRC** to turn on the unit.
- 2 Search and select the name of your receiver ("KMM-BT408") on the Bluetooth device.
"PAIRING" ➔ "PASS XXXXXX" ➔ "Device name" ➔ "PRESS" ➔ "VOLUME KNOB" appears on the display.
 - For some Bluetooth devices, you may need to enter the Personal Identification Number (PIN) code immediately after searching.
- 3 Press the volume knob to start pairing.
"PAIRING OK" appears when pairing is completed.

Once pairing is completed, Bluetooth connection is established automatically.

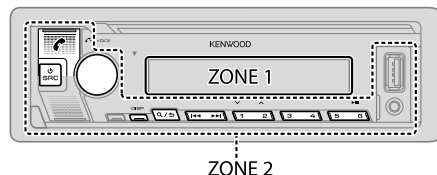
- "BT1 CONNECTED" and/or "BT2 CONNECTED" appears on the display window for 2 seconds.
- "🔋" indicator lights up to show the strength of the battery and signal of the connected device.
- This unit supports Secure Simple Pairing (SSP).
- Up to five devices can be registered (paired) in total.
- Once the pairing is completed, the Bluetooth device will remain registered in the unit even if you reset the unit. To delete the paired device, see [DEVICE DELETE] on page 18.
- A maximum of two Bluetooth phones and one Bluetooth audio device can be connected at any time. To connect or disconnect the registered device, see [PHONE SELECT] or [AUDIO SELECT] in [BT MODE]. (Page 18)
However, while in BT AUDIO source, you can connect to five Bluetooth audio devices and switch between these five devices. (Page 19)
- Some Bluetooth devices may not automatically connect to the unit after pairing. Connect the device to the unit manually.
- Refer to the instruction manual of the Bluetooth device for more information.

Auto Pairing

When you connect iPhone/iPod touch to the USB input terminal, pairing request (via Bluetooth) is automatically activated if [AUTO PAIRING] is set to [ON]. (Page 18)

Press the volume knob to pair once you have confirmed the device name.

Bluetooth — Mobile phone



Receive a call

When there is an incoming call:

- [ZONE 2] illuminates in green color and flashes.
- The unit answers the call automatically if [AUTO ANSWER] is set to a selected time. (Page 16)

During a call:

- [ZONE 1] illuminates according to the settings made for [DISPLAY] (page 25) and [ZONE 2] illuminates in green color.
- If you turn off the unit or detach the faceplate, Bluetooth is disconnected.

Bluetooth®

The following operations may differ or be unavailable depending on the connected phone.

To	On the faceplate	On the remote control
First incoming call...		
Answer a call	Press  or the volume knob or one of the number buttons (1 to 6).	Press  .
Reject a call	Press  .	Press  .
End a call	Press  .	Press  .
While talking on the first incoming call...		
Answer another incoming call and hold the current call	Press  .	Press  .
Reject another incoming call	Press  .	Press  .
While having two active calls...		
End current call and activate held call	Press  .	Press  .
Swap between the current call and held call	Press  .	Press  .
Adjust the phone volume*1 [00] to [35] (Default: [15])	Turn the volume knob during a call.	Press VOL  *2 or VOL  during a call.
Switch between hands-free and private talk modes*3	Press 6  during a call.	(Not available)

*1 This adjustment will not affect the volume of the other sources.

*2 Press and hold VOL  to continuously increase the volume to 15.

*3 Operations may vary according to the connected Bluetooth device.

Improve the voice quality

While talking on the phone...

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select an item (see the following table), then press the knob.
- 3 Repeat step 2 until the desired item is selected or activated.
- 4 Press and hold  to exit.

To return to the previous setting item, press .

Default: **[XX]**

[MIC GAIN]	[−10] to [+10] ([−4]): The sensitivity of the microphone increases as the number increases.
[NR LEVEL]	[LEVEL −5] to [LEVEL +5] ([LEVEL 0]): Adjust the noise reduction level until the least noise is being heard during a phone conversation.
[ECHO CANCEL]	[LEVEL −5] to [LEVEL +5] ([LEVEL 0]): Adjust the echo cancellation delay time until the least echo is being heard during a phone conversation.

- Call quality may depend on mobile phone.

Bluetooth®

Make the setting for answering a call

- 1 Press to enter Bluetooth mode.
- 2 Turn the volume knob to select [SETTINGS], then press the knob.
- 3 Turn the volume knob to select [AUTO ANSWER], then press the knob.
- 4 Turn the volume knob to select the time (in seconds) for the unit to answer the call automatically, then press the knob.
[01] to [30], or select [OFF] to cancel. (Default: [OFF])
- 5 Press and hold to exit.

To return to the previous setting item, press .

Make a call

You can make a call from the call history, phonebook, or dialing the number. Call by voice is also possible if your mobile phone has the feature.

- 1 Press to enter Bluetooth mode.
“(First device name)” appears.
 - If two Bluetooth phones are connected, press again to switch to the other phone.
“(Second device name)” appears.
- 2 Turn the volume knob to select an item (see the following table), then press the knob.
- 3 Repeat step 2 until the desired item is selected/activated or follow the instructions stated on the selected item.
- 4 Press and hold to exit.

To return to the previous setting item, press .

[CALL HISTORY]

(Applicable only if the phone supports PBAP.)

- 1 Press the volume knob to select a name or a phone number.
 - “I” indicates call received, “O” indicates call made, “M” indicates call missed.
 - Press DISP to change the display category (NUMBER or NAME).
 - “NO DATA” appears if there is no recorded call history or call number.
- 2 Press the volume knob to call.

[PHONE BOOK]

(Applicable only if the phone supports PBAP.)

- 1 Turn the volume knob quickly to enter alphabet search mode (if the phonebook contains many contacts).
The first menu (ABCDEFGHIJK) appears.
 - To go to the other menu (LMNOPQRSTUVWXYZ), press 2 / .
 - To select the desired first letter, turn the volume knob or press , then press the knob.
Select “1” to search with numbers and select “*” to search with symbols.
- 2 Turn the volume knob to select a name, then press the knob.
- 3 Turn the volume knob to select a phone number, then press the knob to call.
 - For using phonebook with this unit, make sure to allow access to or transfer from your smartphone. Depending on the connected phone, the process may be different.
 - Contacts are categorized as: HM (home), OF (office), MO (mobile), OT (other), GE (general)
 - This unit can display only non-accent letters. (Accent letters such as “ü” are shown as “U”.)

[NUMBER DIAL]

- 1 Turn the volume knob to select a number (0 to 9) or character (*, #, +).
- 2 Press / to move the entry position.
Repeat step 1 and step 2 until you finish entering the phone number.
- 3 Press the volume knob to call.
(or using the remote control)
1 Press the number buttons (0 to 9) to enter the phone number.
2 Press to call.

[VOICE]

Speak the name of the contact you want to call or the voice command to control the phone functions. (See also the following "Make a call using voice recognition".)

[LOW]/[MID]/[FULL]: Shows the strength of the battery.*

[NO SIGNAL]/[LOW]/[MID]/[MAX]: Shows the strength of the current received signal.*

* Functionality depends on the type of the phone used.

Make a call using voice recognition

- 1 Press and hold to activate the voice recognition of the connected phone.
 - 2 Speak the name of the contact you want to call or the voice command to control the phone functions.
- Supported Voice Recognition features vary for each phone. Refer to the instruction manual of the connected phone for details.

Store a contact in memory

You can store up to 6 contacts into the number buttons (1 to 6).

- 1 Press to enter Bluetooth mode.
- 2 Turn the volume knob to select [CALL HISTORY], [PHONE BOOK] or [NUMBER DIAL], then press the knob.
- 3 Turn the volume knob to select a contact or enter a phone number.
If a contact is selected, press the volume knob to show the phone number.
- 4 Press and hold one of the number buttons (1 to 6).
"STORED" appears when the contact is stored.

To erase a contact from the preset memory, select [NUMBER DIAL] in step 2, store a blank number in step 3 and proceed to step 4.

Make a call to a registered number

- 1 Press to enter Bluetooth mode.
- 2 Press one of the number buttons (1 to 6).
- 3 Press the volume knob to call.
"NO MEMORY" appears if there is no contact stored.

Bluetooth mode settings

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select an item (page 18), then press the knob.
- 3 Repeat step 2 until the desired item is selected/activated or follow the instructions stated on the selected item.
- 4 Press and hold to exit.

To return to the previous setting item, press .

Default: [XX]

[BT MODE]	
[PHONE SELECT]	Selects the phone or audio device to connect or disconnect. "✕" appears in front of the device name when connected.
[AUDIO SELECT]	"▷" appears in front of the current playback audio device. • You can connect a maximum of two Bluetooth phones and one Bluetooth audio device at a time.
[DEVICE DELETE]	1 Turn the volume knob to select a device to delete, then press the knob. 2 Turn the volume knob to select [YES] or [NO], then press the knob.
[PIN CODE EDIT] (0000)	Changes the PIN code (up to 6 digits). 1 Turn the volume knob to select a number. 2 Press ◀◀ / ▶▶ to move the entry position. Repeat step 1 and step 2 until you finish entering the PIN code. 3 Press the volume knob to confirm.
[RECONNECT]	[ON]: The unit is automatically reconnect when the last connected Bluetooth device is within the connectable range. ; [OFF]: Cancels.
[AUTO PAIRING]	[ON]: The unit is automatically paired with the supported Bluetooth device (iPhone/iPod touch) when it is connected through USB input terminal. Depending on the operating system of the connected device, this function may not work. ; [OFF]: Cancels.
[INITIALIZE]	[YES]: Initializes all the Bluetooth settings (including stored pairing, phonebook, and etc.). ; [NO]: Cancels.

Bluetooth test mode

You can check the connectivity of the supported profile between the Bluetooth device and the unit.

- Make sure there is no Bluetooth device paired.

- 1 Press and hold** .
"PLEASE PAIR YOUR PHONE PIN 0000" appears on the display.
- 2 Search and select the name of your receiver ("KMM-BT408") on the Bluetooth device.**
- 3 Operate the Bluetooth device to confirm pairing.**
"TESTING" flashes on the display.

The connectivity result (OK or NG) appears after the test.

PAIRING: Pairing status

HF CNT: Hands-Free Profile (HFP) compatibility

AUD CNT: Advanced Audio Distribution Profile (A2DP) compatibility

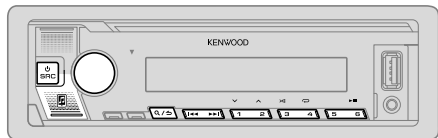
PB DL: Phonebook Access profile (PBAP) compatibility

To cancel test mode, press and hold  SRC to turn off the unit.

Bluetooth®

Bluetooth — Audio

- Operations and display indications may differ according to their availability on the connected device.
- Depending on the connected device, some features may not work with your device.



While in BT AUDIO source, you can connect to five Bluetooth audio devices and switch between these five devices.

Listen to the audio player via Bluetooth

- 1 Press **SRC** repeatedly (or press SRC on the remote control) to select BT AUDIO.
 - Pressing **BT** enters BT AUDIO directly.
- 2 Operate the audio player via Bluetooth to start playback.

To	On the faceplate	On the remote control
Play back/pause	Press 6 ► .	Press ENT ► .
Select group or folder	Press 2 ▲ / 1 ▼.	Press #FM+/*AM-.
Reverse skip/ Forward skip	Press I◀◀ / ▶▶I.	Press I◀◀ / ▶▶I (+).
Reverse/Fast-forward	Press and hold I◀◀ / ▶▶I.	Press and hold I◀◀ / ▶▶I (+).

To	On the faceplate
Repeat play	Press 4 ↺ repeatedly. [ALL REPEAT], [FILE REPEAT], [GROUP REPEAT], [REPEAT OFF]
Random play	Press and hold 3 >< to select [ALL RANDOM] or [GROUP RANDOM]. • Press 3 >< to select [RANDOM OFF].
Select a file from a folder/list	Refer to "Select a file to play" on page 11.
Switch between connected Bluetooth audio devices	Press 5. (Pressing the "Play" key on the connected device itself also causes switching of sound output from the device.)

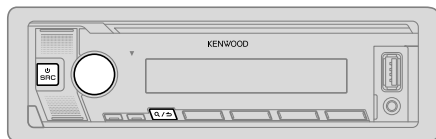
Listen to iPod/iPhone via Bluetooth

You can listen to the songs on the iPod/iPhone via Bluetooth on this unit.

Press **SRC** repeatedly to select iPod BT.

- You can operate the iPod/iPhone in the same way as iPod/iPhone via USB input terminal. (Page 9)
- If you plug in an iPod/iPhone to the USB input terminal while listening to iPod BT source, the source automatically changes to iPod USB source. Press **SRC** to select iPod BT source if the device is still connected via Bluetooth.

Audio Settings



- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select an item (see the following table), then press the knob.
- 3 Repeat step 2 until the desired item is selected or activated.
- 4 Press and hold **Q/↵** to exit.

(or using the remote control)

- 1 Press AUD to enter [AUDIO CONTROL].
- 2 Press **▲/▼** to select an item, then press ENT **▶||**.

To return to the previous setting item, press **Q/↵**.

Default: **[XX]**

[AUDIO CONTROL]	
[SUB-W LEVEL]	[LEVEL -50] to [LEVEL +10] ([LEVEL 0]): Adjusts the subwoofer output level.
[EASY EQ]	Adjusts your own sound settings. • The settings are stored to [USER] in [PRESET EQ]. • The settings made may affect the current settings of [MANUAL EQ].
[SW]:	[LEVEL -50] to [LEVEL +10] (Default: [LEVEL 0])
[BASS]:	[LEVEL -9] to [LEVEL +9] ([LEVEL +1])
[MID]:	[LEVEL -9] to [LEVEL +9] ([LEVEL -6])
[TRE]:	[LEVEL -9] to [LEVEL +9] ([LEVEL +3])

[MANUAL EQ]

Adjusts your own sound settings for each source.

- The settings are stored to [USER] in [PRESET EQ].
- The settings made may affect the current settings of [EASY EQ].

[62.5HZ]	[LEVEL]	[LEVEL -9] to [LEVEL +9] ([LEVEL +5]): Adjusts the level to memorize for each source. (Before making an adjustment, select the source you want to adjust.)
	[BASS EXTEND]	[ON]: Turns on the extended bass. ; [OFF]: Cancels.
[100HZ]/[160HZ]/ [250HZ]/[400HZ]/ [630HZ]/[1KHZ]/ [1.6KHZ]/[2.5KHZ]/ [4KHZ]/[6.3KHZ]/ [10KHZ]/[16KHZ]		Adjusts the level to memorize for each source. (Before making an adjustment, select the source you want to adjust.)
	[100HZ]:	[LEVEL -9] to [LEVEL +9] (Default: [LEVEL +1])
	[160HZ]:	[LEVEL -9] to [LEVEL +9] ([LEVEL 0])
	[250HZ]:	[LEVEL -9] to [LEVEL +9] ([LEVEL -1])
	[400HZ]:	[LEVEL -9] to [LEVEL +9] ([LEVEL -2])
	[630HZ]:	[LEVEL -9] to [LEVEL +9] ([LEVEL -3])
	[1KHZ]:	[LEVEL -9] to [LEVEL +9] ([LEVEL -6])
	[1.6KHZ]:	[LEVEL -9] to [LEVEL +9] ([LEVEL -3])
	[2.5KHZ]:	[LEVEL -9] to [LEVEL +9] ([LEVEL -2])
	[4KHZ]:	[LEVEL -9] to [LEVEL +9] ([LEVEL -4])
	[6.3KHZ]:	[LEVEL -9] to [LEVEL +9] ([LEVEL +4])
	[10KHZ]:	[LEVEL -9] to [LEVEL +9] ([LEVEL +3])
	[16KHZ]:	[LEVEL -9] to [LEVEL +9] ([LEVEL +7])

[Q FACTOR] [1.35]/[1.50]/[2.00]: Adjusts the quality factor.

[PRESET EQ] [NATURAL]/[ROCK]/[POPS]/[EASY]/[TOP40]/[JAZZ]/[POWERFUL]/[USER]: Selects a preset equalizer suitable to the music genre.
(Select [USER] to use the settings made in [EASY EQ] or [MANUAL EQ].)

[BASS BOOST] [LV1] to [LV5]: Selects your preferred bass boost level. ; [OFF]: Cancels.

[LOUDNESS] [LV1]/[LV2]: Selects your preferred low or high frequencies boost to produce a well-balanced sound at low volume. ; [OFF]: Cancels.

[SUBWOOFER SET] [ON]: Turns on the subwoofer output. ; [OFF]: Cancels.

Audio Settings

[FADER]	(Not applicable if 3-way crossover is selected.) (Page 7) [R15] to [F15] ([0]): Adjusts the front and rear speaker output balance.
[BALANCE]	[L15] to [R15] ([0]): Adjusts the left and right speaker output balance.
[VOLUME OFFSET]	[−15] to [+6] ([0]): Presets the initial volume level of each source by comparing to the FM volume level. (Before adjustment, select the source you want to adjust.)
[SOUND EFFECT]	
[SOUND RECNSTR] (Sound reconstruction)	(Not applicable for RADIO source and AUX source.) [ON]: Creates realistic sound by compensating the high-frequency components and restoring the rise-time of the waveform that are lost in audio data compression. ; [OFF]: Cancels.
[SPACE ENHANCE]	(Not applicable for RADIO source.) [SML]/[MED]/[LRG]: Virtually enhances the sound space. ; [OFF]: Cancels.
[SND REALIZER]	[LV1]/[LV2]/[LV3]: Virtually makes the sound more realistic. ; [OFF]: Cancels.
[STAGE EQ]	[LOW]/[MID]/[HI]: Virtually adjusts the sound position heard from the speakers. ; [OFF]: Cancels.
[DRIVE EQ]	[ON]: Boosts the frequency to reduce the noise heard from outside the car or running noise of the tyres. ; [OFF]: Cancels.
[SPEAKER SIZE]	Depending on the crossover type you have selected (see “Change the crossover type” on page 7), 2-way crossover or 3-way crossover setting items will be shown. (See the following “Crossover settings”.) By default, 2-way crossover type is selected.
[X ' OVER]	
[DTA SETTINGS]	For settings, see “Digital Time Alignment settings” on page 23.
[CAR SETTINGS]	

- [SUB-W LEVEL] is selectable only when [SUBWOOFER SET] is set to [ON]. (Page 20)

Crossover settings

Below are the available setting items for 2-way crossover and 3-way crossover.

SPEAKER SIZE

Selects according to the connected speaker size for optimum performance.

- The frequency and slope settings are automatically set for the crossover of the selected speaker.
- If [NONE] is selected for the following speaker in [SPEAKER SIZE], the [X ' OVER] setting of the selected speaker is not available.
 - 2-way crossover: [TWEETER] of [FRONT]/[REAR]/[SUBWOOFER]
 - 3-way crossover: [WOOFER]

X ' OVER (crossover)

- [FRQ]/[F-HPF FRQ]/[R-HPF FRQ]/[SW LPF FRQ]/[HPF FRQ]/[LPF FRQ]: Adjusts the crossover frequency for the selected speakers (high pass filter or low pass filter).
If [THROUGH] is selected, all signals are sent to the selected speakers.
- [SLOPE]/[F-HPF SLOPE]/[R-HPF SLOPE]/[SW LPF SLOPE]/[HPF SLOPE]/[LPF SLOPE]: Adjusts the crossover slope.
Selectable only if a setting other than [THROUGH] is selected for the crossover frequency.
- [SW LPF PHASE]/[PHASE]: Selects the phase of the speaker output to be in line with the other speaker output.
- [GAIN LEFT]/[GAIN RIGHT]/[F-HPF GAIN]/[R-HPF GAIN]/[SW LPF GAIN]/[GAIN]: Adjusts the output volume of the selected speaker.

Audio Settings

2-way crossover setting items

[SPEAKER SIZE]			
[FRONT]	[SIZE]	[8CM]/[10CM]/[12CM]/[13CM]/[16CM]/[17CM]/ [18CM]/[4×6]/[5×7]/[6×8]/[6×9]/[7×10]	
	[TWEETER]	[SMALL]/[MIDDLE]/[LARGE]/[NONE] (not connected)	
[REAR]	[SIZE]	[8CM]/[10CM]/[12CM]/[13CM]/[16CM]/[17CM]/[18CM]/[4×6]/ [5×7]/[6×8]/[6×9]/[7×10]/[NONE] (not connected)	
[SUBWOOFER]	[SIZE]	[16CM]/[20CM]/[25CM]/[30CM]/[38CM OVER]/[NONE] (not connected)	
[X ' OVER]			
[TWEETER]	[FRQ]	[1KHZ]/[1.6KHZ]/[2.5KHZ]/[4KHZ]/[5KHZ]/ [6.3KHZ]/[8KHZ]/[10KHZ]/[12.5KHZ]	
	[GAIN LEFT]	[-8] to [0]	
	[GAIN RIGHT]	[-8] to [0]	
[FRONT HPF]	[F-HPF FRQ]	[30HZ]/[40HZ]/[50HZ]/[60HZ]/[70HZ]/[80HZ]/ [90HZ]/[100HZ]/[120HZ]/[150HZ]/[180HZ]/ [220HZ]/[250HZ]/[THROUGH]	
	[F-HPF SLOPE]	[-6DB]/[-12DB]/[-18DB]/[-24DB]	
	[F-HPF GAIN]	[-8] to [0]	
[REAR HPF]	[R-HPF FRQ]	Configure the settings for the rear speakers similarly to the front speakers.	
	[R-HPF SLOPE]		
	[R-HPF GAIN]		

[SUBWOOFER LPF]	[SW LPF FRQ]	[30HZ]/[40HZ]/[50HZ]/[60HZ]/[70HZ]/[80HZ]/[90HZ]/[100HZ]/[120HZ]/[150HZ]/[180HZ]/[220HZ]/[250HZ]/[THROUGH]
	[SW LPF SLOPE]	[-6DB]/[-12DB]/[-18DB]/[-24DB]
	[SW LPF PHASE]	[REVERSE] (180°)/[NORMAL] (0°)
	[SW LPF GAIN]	[-8] to [0]

- [SUBWOOFER] of [SPEAKER SIZE] and [SUBWOOFER LPF] of [X'OVER] is selectable only when [SUBWOOFER SET] is set to [ON]. (Page 20)

3-way crossover setting items

[SPEAKER SIZE]		
[TWEETER]	[SMALL]/[MIDDLE]/[LARGE]	
[MID RANGE]	[8CM]/[10CM]/[12CM]/[13CM]/[16CM]/[17CM]/[18CM]/[4×6]/[5×7]/[6×8]/[6×9]	
[WOOFER]	[16CM]/[20CM]/[25CM]/[30CM]/[38CM OVER]/[NONE] (not connected)	
[X'OVER]		
[TWEETER]	[HPF FRQ]	[1KHZ]/[1.6KHZ]/[2.5KHZ]/[4KHZ]/[5KHZ]/[6.3KHZ]/[8KHZ]/[10KHZ]/[12.5KHZ]
	[SLOPE]	[-6DB]/[-12DB]
	[PHASE]	[REVERSE] (180°)/[NORMAL] (0°)
	[GAIN]	[-8] to [0]

Audio Settings

[MID RANGE]	[HPF FRQ]	[30HZ]/[40HZ]/[50HZ]/[60HZ]/[70HZ]/[80HZ]/[90HZ]/[100HZ]/[120HZ]/[150HZ]/[180HZ]/[220HZ]/[250HZ]/[THROUGH]
	[HPF SLOPE]	[−6DB]/[−12DB]
	[LPF FRQ]	[1KHZ]/[1.6KHZ]/[2.5KHZ]/[4KHZ]/[5KHZ]/[6.3KHZ]/[8KHZ]/[10KHZ]/[12.5KHZ]/[THROUGH]
	[LPF SLOPE]	[−6DB]/[−12DB]
	[PHASE]	[REVERSE] (180°)/[NORMAL] (0°)
	[GAIN]	[−8] to [0]
[WOOFER]	[LPF FRQ]	[30HZ]/[40HZ]/[50HZ]/[60HZ]/[70HZ]/[80HZ]/[90HZ]/[100HZ]/[120HZ]/[150HZ]/[180HZ]/[220HZ]/[250HZ]/[THROUGH]
	[SLOPE]	[−6DB]/[−12DB]
	[PHASE]	[REVERSE] (180°)/[NORMAL] (0°)
	[GAIN]	[−8] to [0]

- [WOOFER] of [SPEAKER SIZE] and [WOOFER] of [X'OVER] is selectable only when [SUBWOOFER SET] is set to [ON]. (Page 20)

Digital Time Alignment settings

Digital Time Alignment sets the delay time of the speaker output to create a more suitable environment for your vehicle.

- For more information, see “Determining the delay time automatically” on page 24.

[DTA SETTINGS]

[POSITION]	Selects your listening position (reference point). [ALL]: Not compensating ; [FRONT RIGHT]: Front right seat ; [FRONT LEFT]: Front left seat ; [FRONT ALL]: Front seats • [FRONT ALL] is displayed only when [2-WAY X'OVER] is selected. (Page 7)
[DISTANCE]	[0CM] to [610CM]: Fine adjust the distance to compensate. (Before making an adjustment, select the speaker you want to adjust.)
[GAIN]	[−8DB] to [0DB]: Fine adjust the output volume of the selected speaker. (Before making an adjustment, select the speaker you want to adjust.)
[DTA RESET]	[YES]: Resets the settings ([DISTANCE] and [GAIN]) of the selected [POSITION] to default. ; [NO]: Cancels.

[CAR SETTINGS]

[CAR TYPE]	[COMPACT]/[FULL SIZE CAR]/[WAGON]/[MINIVAN]/[SUV]/[MINIVAN(LONG)]: Selects the type of vehicle. ; [OFF]: Not compensating.
[R-SP LOCATION]	Selects the location of the rear speakers in your vehicle to calculate the furthest distance from the listening position selected (reference point). • [DOOR]/[REAR DECK]: Selectable only when [CAR TYPE] is selected as [OFF], [COMPACT], [FULL SIZE CAR], [WAGON] or [SUV]. • [2ND ROW]/[3RD ROW]: Selectable only when [CAR TYPE] is selected as [MINIVAN] or [MINIVAN(LONG)].

- Before making an adjustment for [DISTANCE] and [GAIN] of [DTA SETTINGS], select the speaker you want to adjust:

When 2-way crossover is selected:

[FRONT LEFT]/[FRONT RIGHT]/[REAR LEFT]/[REAR RIGHT]/[SUBWOOFER]

- You can only select [REAR LEFT], [REAR RIGHT] and [SUBWOOFER] if a setting other than [NONE] is selected for [REAR] and [SUBWOOFER] of [SPEAKER SIZE]. (Page 22)

Audio Settings

When 3-way crossover is selected:

[TWEETER LEFT]/[TWEETER RIGHT]/[MID LEFT]/[MID RIGHT]/[WOOFER]

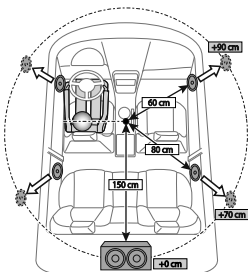
– You can only select [WOOFER] if a setting other than [NONE] is selected for [WOOFER] of [SPEAKER SIZE]. (Page 22)

• [R-SP LOCATION] of [CAR SETTINGS] is selectable only if:

– 2-way crossover is selected. (Page 7)

– A setting other than [NONE] is selected for [REAR] of [SPEAKER SIZE]. (Page 22)

Determining the delay time automatically



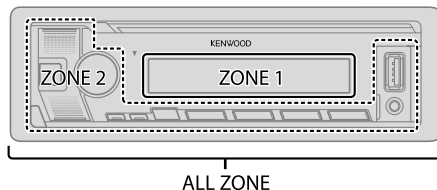
If you specify the distance from the currently set listening position to every speaker, the delay time will be automatically calculated.

- 1 Set [POSITION] and determine the listening position as the reference point (the reference point for [FRONT ALL] will be the center between the right and left in the front seats).
- 2 Measure the distances from the reference point to the speakers.
- 3 Calculate the distance between the furthest speaker (subwoofer on the illustration) and other speakers.
- 4 Sets the [DISTANCE] calculated in step 3 for individual speakers.
- 5 Adjusts [GAIN] for individual speakers.

Example: When [FRONT ALL] is selected as the listening position.

Display Settings

Zone identification for color settings and brightness settings



Set the dimmer

Press and hold DISP to turn on or off the dimmer.

- Once you press and hold this button, [DIMMER] (page 25) setting will be overwritten.

Change the display settings

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select an item (page 25), then press the knob.
- 3 Repeat step 2 until the desired item is selected/activated or follow the instructions stated on the selected item.
- 4 Press and hold Q/➤ to exit.

To return to the previous setting item, press Q/➤.

Display Settings

Default: **[XX]**

[DISPLAY]

- [COLOR SELECT]** Selects illumination colors for **[ALL ZONE]**, **[ZONE 1]** and **[ZONE 2]** separately.
- 1 Select a zone. (See the illustration on page 24.)
 - 2 Select a preset color for the selected zone.
- Default: **[VARIABLE SCAN]**

To make your own color, select **[CUSTOM R/G/B]**. The color you have made will be stored in **[CUSTOM R/G/B]**.

- 1 Press the volume knob to enter the detailed color adjustment.
- 2 Press **◀|▶** to select the color (**[R]**/**[G]**/**[B]**) to adjust.
- 3 Turn the volume knob to adjust the level (**[0]** to **[9]**), then press the knob.

[DIMMER]

Dims the illumination.

[ON]: Dimmer is turned on.

[OFF]: Dimmer is turned off.

[DIMMER TIME]: Set the time to turn on dimmer and to turn off dimmer.

- 1 Turn the volume knob to adjust the **[ON]** time, then press the knob.
- 2 Turn the volume knob to adjust the **[OFF]** time, then press the knob.

Default: **[ON]**: **[6:00PM]** ; **[OFF]**: **[6:00AM]**

[BRIGHTNESS]

Sets the brightness for day and night separately.

- 1 **[DAY]**/**[NIGHT]**: Select day or night.
- 2 Select a zone. (See the illustration on page 24.)
- 3 **[LVL00]** to **[LVL31]**: Set the brightness level.

[TEXT SCROLL]

[ONCE]: Scrolls the display information once. ; **[AUTO]**: Repeats scrolling at 5-second intervals. ; **[OFF]**: Cancels.

[LEVEL METER]

[ON]: Shows the level meter on the display window (as shown below). ; **[OFF]**: Cancels.



Level meter

[CLOCK]

[CLOCK DISPLAY] **[ON]**: The clock time is shown on the display even when the unit is turned off. ; **[OFF]**: Cancels.

[DEMO MODE] **[ON]**: Activates the display demonstration automatically if no operation is done for about 15 seconds. ; **[OFF]**: Deactivates.

Preset color:

[INITIAL COLOR]/**[VARIABLE SCAN]**/**[CUSTOM R/G/B]**/**[RED1]**/**[RED2]**/**[RED3]**/**[PURPLE1]**/**[PURPLE2]**/**[PURPLE3]**/**[PURPLE4]**/**[BLUE1]**/**[BLUE2]**/**[BLUE3]**/**[SKYBLUE1]**/**[SKYBLUE2]**/**[LIGHTBLUE]**/**[AQUA1]**/**[AQUA2]**/**[GREEN1]**/**[GREEN2]**/**[GREEN3]**/**[YELLOWGREEN1]**/**[YELLOWGREEN2]**/**[YELLOW]**/**[ORANGE1]**/**[ORANGE2]**/**[ORANGERED]**

Installation/Connection

This section is for the professional installer.
For safety's sake, leave wiring and mounting to professionals. Consult the car audio dealer.

▲ WARNING

- The unit can only be used with a 12 V DC power supply, negative ground.
- Disconnect the battery's negative terminal before wiring and mounting.
- Do not connect Battery wire (yellow) and Ignition wire (red) to the car chassis or Ground wire (black) to prevent a short circuit.
- To prevent short circuit:
 - Insulate unconnected wires with vinyl tape.
 - Be sure to ground this unit to the car's chassis again after installation.
 - Secure the wires with cable clamps and wrap vinyl tape around the wires that comes into contact with metal parts to protect the wires.

▲ CAUTION

- Install this unit in the console of your vehicle. Do not touch the metal parts of this unit during and shortly after use of the unit. Metal parts such as the heat sink and enclosure become hot.
- Do not connect the ⊖ wires of speakers to the car chassis or Ground wire (black), or connect them in parallel.
- Mount the unit at an angle of less than 30°.
- If your vehicle wiring harness does not have the ignition terminal, connect Ignition wire (red) to the terminal on the vehicle's fuse box which provides 12 V DC power supply and is turned on and off by the ignition key.
- Keep all cables away from heat dissipate metal parts.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- If the fuse blows, first make sure the wires are not touching car's chassis, then replace the old fuse with one that has the same rating.

Part list for installation

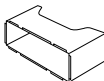
(A) Faceplate (×1)



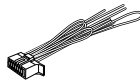
(B) Trim plate (×1)



(C) Mounting sleeve (×1)



(D) Wiring harness (×1)



(E) Extraction key (×2)



(F) Screws

 M5 × 7 mm (×4)

 M5 × 6 mm (×4)

 M4 × 8 mm (×1)

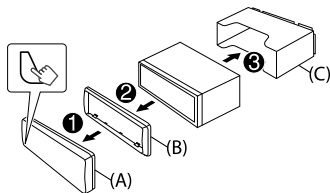
Basic procedure

- 1 Remove the key from the ignition switch, then disconnect the ⊖ terminal of the car battery.
- 2 Connect the wires properly.
See "Wiring connection" on page 28.
- 3 Install the unit to your car.
See "Installing the unit (in-dash mounting)" on page 27.
- 4 Connect the ⊖ terminal of the car battery.
- 5 Press  SRC to turn on the power.
- 6 Detach the faceplate and reset the unit within 5 seconds. (Page 4)

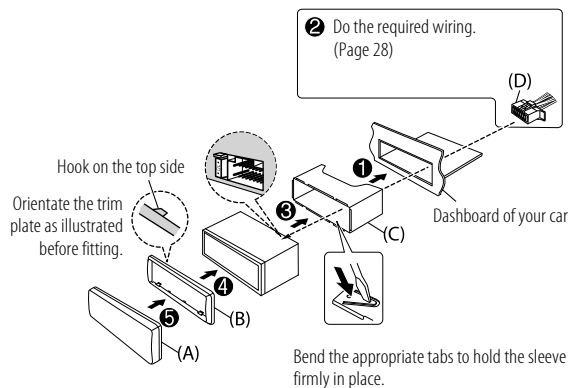
Installation/Connection

Installing the unit (in-dash mounting)

1

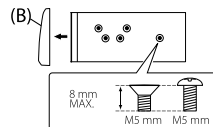


2



Installing the unit (without mounting sleeve)

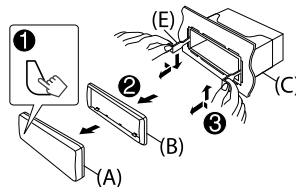
- 1 Remove the mounting sleeve and trim plate from the unit.
- 2 Align the holes in the unit (on both sides) with the vehicle mounting bracket and secure the unit with screws (supplied).



⚠ Use only the specified screws. Using wrong screws might damage the unit.

Removing the unit

- 1 Detach the faceplate.
- 2 Remove the trim plate.
- 3 Insert the extraction keys deeply into the slots on each side, then follow the arrows as shown on the illustration.

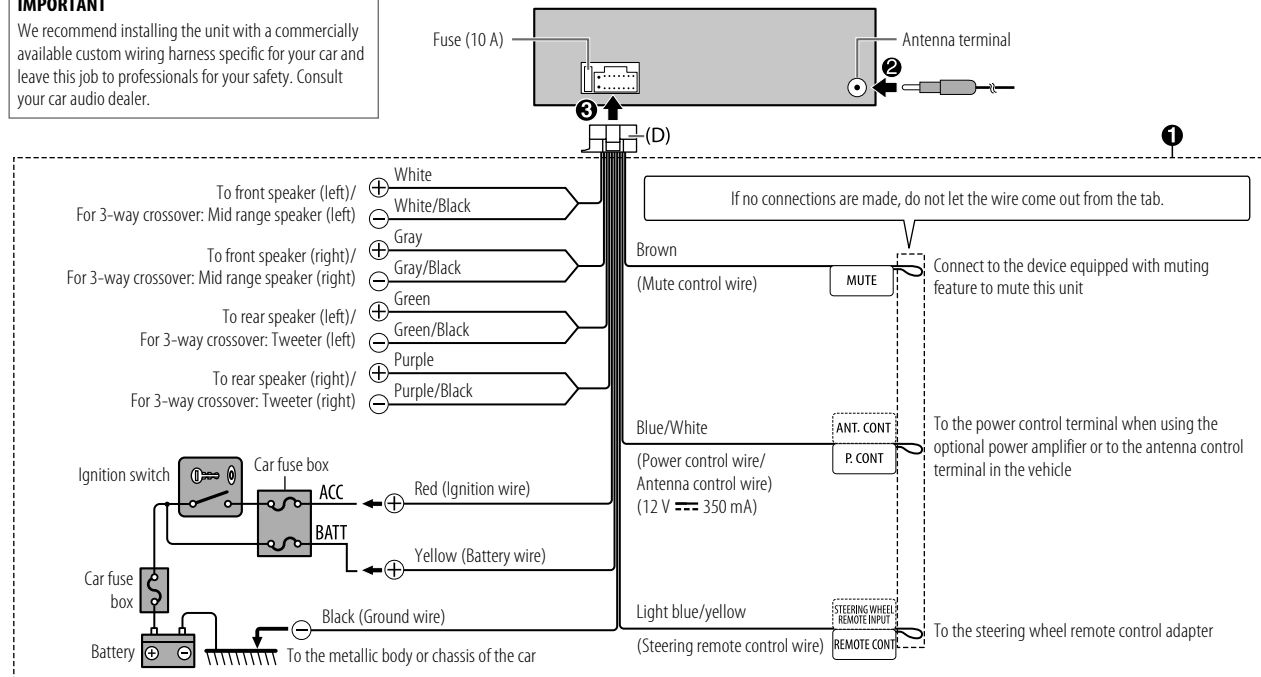


Installation/Connection

Wiring connection

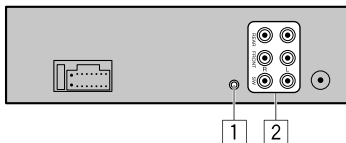
IMPORTANT

We recommend installing the unit with a commercially available custom wiring harness specific for your car and leave this job to professionals for your safety. Consult your car audio dealer.



Installation/Connection

Connect external components



No	Part
1	Microphone input jack (Page 13)
2	Output terminals (See the following "Connect external amplifiers via output terminals".)

Connect external amplifiers via output terminals

When connecting an external amplifier to the output terminals of this unit, securely connect the amplifier ground wire to the car chassis to prevent damage to the unit.

Output terminals	2-way crossover	3-way crossover
REAR:	Rear output	Tweeter output
FRONT:	Front output	Mid Range output
SW:	Subwoofer output	Woofer output

References

Maintenance

Cleaning the unit

Wipe off dirt on the faceplate with a dry silicone or soft cloth.

Cleaning the connector

Detach the faceplate and clean the connector gently with a cotton swab. Be careful not to damage the connector.



Connector (on the reverse side of the faceplate)

More information

- For:
- Latest firmware updates and latest compatible item list
 - KENWOOD original application
 - Any other latest information

Visit <<https://www.kenwood.com/cs/ce/>>.

Playable files

- USB mass storage class device:
Playable audio file:
MP3 (.mp3), WMA (.wma), AAC (.aac), AAC (.m4a), WAV (.wav), FLAC (.flac)
- Playable file system: FAT12, FAT16, FAT32
Even when audio files comply with the standards listed above, playback may be impossible depending on the types or conditions of media or devices.
- For detailed information and notes about the playable audio files, visit
<<https://www.kenwood.com/cs/ce/audiofile/>>.

References

About USB devices

- You cannot connect a USB device via a USB hub.
- Connecting a cable whose total length is longer than 5 m may result in abnormal playback.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 1.5 A.

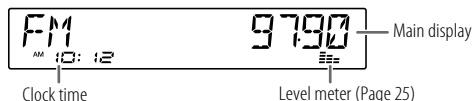
About iPod/iPhone

- Made for
 - iPod touch (6th generation)
 - iPhone 5S, 6, 6 Plus, 6S, 6S Plus, SE, 7, 7 Plus, 8, 8 Plus, X, XS, XS MAX, XR, 11, 11 Pro, 11 Pro MAX, SE (2nd generation), 12, 12 Mini, 12 Pro, 12 Pro MAX
- The song order displayed on the selection menu of this unit may differ from that of the iPod/iPhone.
- Depending on the version of the operating system of the iPod/iPhone, some functions may not operate on this unit.

Change the display information

Each time you press DISP, the display information changes.

- If the information is unavailable or not recorded, "NO TEXT", "NO INFO", or other information (eg. station name) appears or display will be blank.



Source name	Display information: Main display
STANDBY	Source name ➡ Date ➡ back to the beginning
RADIO	Frequency ➡ Date ➡ back to the beginning For FM Radio Data System stations only: Station name/Program type ➡ Radio text ➡ Radio text+ ➡ Radio text+ song title/Radio text+ artist ➡ Frequency ➡ Date ➡ back to the beginning
USB	For MP3/WMA/AAC/WAV/FLAC files: Song title/Artist ➡ Album title/Artist ➡ Folder name ➡ File name ➡ Playing time ➡ Date ➡ back to the beginning
iPod USB/iPod BT	Song title/Artist ➡ Album title/Artist ➡ Playing time ➡ Date ➡ back to the beginning
BT AUDIO	Song title/Artist ➡ Album title/Artist ➡ Playing time ➡ Date ➡ back to the beginning
AUX	Source name ➡ Date ➡ back to the beginning

Troubleshooting

Symptom	Remedy
General	Sound cannot be heard. - Adjust the volume to the optimum level. - Check the cords and connections.
	"MISWIRING CHECK WIRING THEN PWR ON" appears. Turn the power off, then check to be sure the terminals of the speaker wires are insulated properly. Turn the power on again.
	"PROTECTING SEND SERVICE" appears. Send the unit to the nearest service center.
	Source cannot be selected. Check the [SOURCE SELECT] setting. (Page 6)
	- Sound cannot be heard. - The unit does not turn on. - Information shown on the display is incorrect. Clean the connectors. (Page 29)
	The unit does not work at all. Reset the unit. (Page 4)
Radio	Correct characters are not displayed. - This unit can only display uppercase letters, numbers, and a limited number of symbols. - Depending on the display language you have selected (page 7), some characters may not be displayed correctly.
	- Radio reception is poor. - Static noise while listening to the radio. Connect the antenna firmly.
USB/iPod	Playback order is not as intended. USB device, the folders are played in the order of creation (date and time). The files within each folder are played in the order of the file name (alphabet).
	Elapsed playing time is not correct. This depends on the recording process earlier (USB).

Symptom	Remedy
USB/iPod	"READING" keeps flashing. - Do not use too many hierarchical levels and folders. - Reattach the device (USB/iPod/iPhone).
	"UNSUPPORTED DEVICE" appears. - Check whether the connected USB device is compatible with this unit and ensure the file systems are in supported formats. (Page 29, 30) - Reattach the USB device.
	"UNRESPONSIVE DEVICE" appears. Make sure the USB device is not malfunction and reattach the USB device.
	"USB HUB IS NOT SUPPORTED" appears. This unit cannot support a USB device connected via a USB hub.
	- The source does not change to "USB" when you connect a USB device while listening to another source. "USB ERROR" appears. The USB port is drawing more power than the design limit. Turn the power off and unplug the USB device. Then, turn on the power and reattach the USB device. If this does not solve the problem, turn the power off and on (or reset the unit) before replacing with another USB device.
	The iPod/iPhone does not turn on or does not work. - Check the connection between this unit and iPod/iPhone. - Disconnect and reset the iPod/iPhone using hard reset.
	"LOADING" appears when you enter search mode by pressing Q/⏏ . This unit is still preparing the iPod/iPhone music list. It may take some time to load, try again later.
	"NA FILE" Make sure the media (USB) contain supported audio files. (Page 29)
	"COPY PRO" A copy-protected file is played (USB).
	"NO DEVICE" Connect a device (USB/iPod/iPhone), and change the source to USB or iPod USB again.
	"NO MUSIC" Connect a device (USB/iPod/iPhone) that contains playable audio files.

Troubleshooting

Symptom	Remedy
USB/iPod	"iPod ERROR" - Reconnect the iPod. - Reset the iPod. - Press and hold  SRC to turn off the power. Turn the power on again for error recovery.
	"MEMORY FULL" You have reached the maximum storage limit of your iPod/iPhone.
Bluetooth®	No Bluetooth device is detected. - Search from the Bluetooth device again. - Reset the unit. (Page 4)
	Bluetooth pairing cannot be made. - Make sure you have entered the same PIN code to both the unit and Bluetooth device. - Delete pairing information from both the unit and the Bluetooth device, then perform pairing again. (Page 14)
	Echo or noise is heard during a phone conversation. - Adjust the microphone unit's position. (Page 13) - Check the [ECHO CANCEL] setting. (Page 15)
	Phone sound quality is poor. - Reduce the distance between the unit and the Bluetooth device. - Move the car to a place where you can get a better signal reception.
	Phone call sound cannot be heard from the car speakers. Press 6  during a call to switch between hands-free and private talk mode. (Page 15)
	Voice calling method is not successful. - Use voice calling method in a more quiet environment. - Reduce the distance from the microphone when you speak the name. - Make sure the same voice as the registered voice tag is used.

Symptom	Remedy
Bluetooth®	Sound is being interrupted or skipped during playback of a Bluetooth audio player. - Reduce the distance between the unit and the Bluetooth audio player. - Turn off, then turn on the unit and try to connect again. - Other Bluetooth devices might be trying to connect to the unit.
	The connected Bluetooth audio player cannot be controlled. - Check whether the connected Bluetooth audio player supports Audio/Video Remote Control Profile (AVRCP). (Refer to the instructions of your audio player.) - Disconnect and connect the Bluetooth player again.
	"NOT SUPPORT" The connected phone does not support Voice Recognition feature or phonebook transfer.
	"NO ENTRY" There is no registered device connected/found via Bluetooth.
	"ERROR" Try the operation again. If "ERROR" appears again, check if the device supports the function you have tried.
	"NO INFO"/"NO DATA" Bluetooth device cannot get the contact information.
	"HF ERROR XX"/"BT ERROR" Reset the unit and try the operation again. If this does not solve the problem, consult your nearest service center.
	"SWITCHING NG" The connected phones might not support phone switching feature.
Bluetooth®	The Bluetooth connection between the Bluetooth device and the unit is unstable. Delete the unused registered Bluetooth device from the unit. (Page 18)

Specifications

Tuner	FM	Frequency Range	87.5 MHz — 108.0 MHz (50 kHz step)	
		Usable Sensitivity (S/N = 30 dB)	8.2 dBf (0.71 μ V/75 Ω)	
		Quieting Sensitivity (DIN S/N = 46 dB)	17.2 dBf (2.0 μ V/75 Ω)	
		Frequency Response ($\pm$ 3.0 dB)	30 Hz — 15 kHz	
		Signal-to-Noise Ratio (MONO)	64.0 dB	
		Stereo Separation (1 kHz)	40 dB	
	AM	Frequency Range	Band 1 (MW)	531 kHz — 1 602 kHz (9 kHz step)
			Band 2 (SW1)	2 940 kHz — 7 735 kHz (5 kHz space)
			Band 3 (SW2)	9 500 kHz — 10 135 kHz / 11 580 kHz — 18 135 kHz (5 kHz space)
		Channel Space Selection	Band 1	9 kHz
			Band 2 / 3	5 kHz
		Usable Sensitivity (S/N = 20 dB)	MW	29 dB μ (28.2 μ V)
			SW	30 dB μ (32 μ V)

USB	USB Standard	USB 1.1, USB 2.0 (High speed)
	File System	FAT12/16/32
	Maximum Supply Current	DC 5 V  1.5 A
	Frequency Response ($\pm$ 1 dB)	20 Hz — 20 kHz
	Signal-to-Noise Ratio	98 dB (1 kHz)
	Dynamic Range	93 dB
	Channel Separation	91 dB
	MP3 Decode	Compliant with MPEG-1/2 Audio Layer-3
Bluetooth	WMA Decode	Compliant with Windows Media Audio
	AAC Decode	AAC-LC ".aac", ".m4a" files
	WAV Decode	Linear-PCM
	FLAC Decode	FLAC file (Up to 96 kHz/24 bit)
	Version	Bluetooth 4.2
	Frequency Range	2.402 GHz — 2.480 GHz
	RF Output Power (E.I.R.P.)	+4 dBm (MAX), Power Class 2
	Maximum Communication Range	Line of sight approx. 10 m (32.8 ft)
Bluetooth	Profile	HFP 1.7.1 (Hands-Free Profile)
		SPP (Serial Port Profile)
		PBAP (Phonebook Access Profile)
		A2DP (Advanced Audio Distribution Profile)
		AVRCP 1.6.1 (Audio/Video Remote Control Profile)

Specifications

Auxiliary	Frequency Response (± 3 dB)	20 Hz — 20 kHz
	Input Maximum Voltage	1 000 mV
	Input Impedance	30 k Ω
Audio	Maximum Output Power	50 W $\times$ 4
	Full Bandwidth Power (at less than 1 % THD)	22 W $\times$ 4
	Speaker Impedance	4 Ω — 8 Ω
	Tone Action	Band 1: 62.5 Hz ± 9 dB
		Band 2: 100 Hz ± 9 dB
		Band 3: 160 Hz ± 9 dB
		Band 4: 250 Hz ± 9 dB
		Band 5: 400 Hz ± 9 dB
		Band 6: 630 Hz ± 9 dB
		Band 7: 1 kHz ± 9 dB
		Band 8: 1.6 kHz ± 9 dB
		Band 9: 2.5 kHz ± 9 dB
		Band 10: 4 kHz ± 9 dB
		Band 11: 6.3 kHz ± 9 dB
		Band 12: 10 kHz ± 9 dB
		Band 13: 16 kHz ± 9 dB
	Preout Level/Load	3 500 mV/10 k Ω
	Preout Impedance	$\leq 600 \Omega$

General	Operating Voltage	12 V DC car battery
	Installation Size (W $\times$ H $\times$ D)	182 mm $\times$ 53 mm $\times$ 100 mm
	Net Weight (includes Trim plate and Mounting sleeve)	0.6 kg

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廢電池請回收

設備名稱：數位多媒體播放接收機型 Equipment name：				型號（型式）：KMM-BT408 Type designation (Type)		
單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr+6)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
機構零件 Mechanical Parts	○	○	○	○	○	○
配件 Accessory	—	○	○	○	○	○
包裝部分 Packing	○	○	○	○	○	○
電路板 PCB Unit	—	○	○	○	○	○
備考1. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。 Note 1: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.						
備考2. “—” 係指該項限用物質為排除項目。 Note 2: The “—” indicates that the restricted substance corresponds to the exemption.						

藍芽設備使用注意事項

第十二條

經型式認證合格之低功率射頻電機，非經許可公司、商號或使用均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

